

Abstract

Reciprocating slurry pump with a continuous feed rate

In a two-cylinder slurry pump for the continuous feeding of, in particular, concrete, in which pump two feed cylinders remove the high-viscosity material from a pre-charging tank and deliver it to a feed line, a diverter valve is provided with a cross-section that narrows from an inlet opening assigned to the cylinders to a discharge opening assigned to the feed line, which diverter valve connects, in any position, at least one feed cylinder, over its entire cross-section, to the feed line, a support arrangement (20) and a plate cam (15) securely connected thereto being assigned in accordance with the invention to the diverter valve (11) on its side facing towards the cylinders (3, 5). The plate cam (15) comprises not only the inlet opening (21) of the diverter valve (11) but also an intake opening (23), which is arranged at sufficient distance from the inlet opening (21) to cover an opening of one of the feed cylinders (3, 5) completely. Additionally, a process for controlling this continuous-feed slurry pump is described.